

### Problem Statement-1

```
package com.test;
import org.testng.annotations.*;
public class usingTestng {

    @Test
    public void Test1() {
        System.out.println("Test1 Executed");
    }

    @Test
    public void Test2() {
        System.out.println("Test2 Executed");
    }

    @BeforeTest
    public void beforeTest() {
        System.out.println("BeforeTest Executed");
    }

    @AfterTest
    public void AfterTest() {
        System.out.println("AfterTest Executed");
    }

    @BeforeMethod
    public void beforeMethod() {
        System.out.println("BeforeMethod Executed");
    }

    @AfterMethod
    public void afterMethod() {
        System.out.println("AfterMethod Executed");
    }

    @BeforeClass
    public void beforeClass() {
        System.out.println("BeforeClass Executed");
    }

    @AfterClass
    public void afterClass() {
        System.out.println("AfterClass Executed");
    }

}
```

### Problem Statement-2

```
package com.parallel;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.testng.annotations.Test;
public class ParallelTests {
    WebDriver driver;
```

```

@Test(groups="Chrome")
public void LaunchChrome() {
    System.setProperty("webdriver.chrome.driver",
        "./Resources/chromedriver.exe");
    driver = new ChromeDriver();
    driver.get("https://www.facebook.com");
    try {
        Thread.sleep(2000);
    } catch (Exception e) {
        e.printStackTrace();
    }
}

@Test(groups="Chrome", dependsOnMethods="LaunchChrome")
public void TryFacebook1() {
    System.out.println(Thread.currentThread().getId());
    driver.findElement(By.id("email")).sendKeys("ravi10thstudent@gmail.com");
    driver.findElement(By.id("pass")).sendKeys("12345");
    driver.findElement(By.id("loginbutton")).click();
}

@Test(groups="Firefox")
public void LaunchFirefox() {
    System.setProperty("webdriver.gecko.driver", "./Resources/geckodriver.exe");
    driver = new FirefoxDriver();
    driver.get("https://www.facebook.com");
    try {
        Thread.sleep(4000);
    } catch (Exception e) {
        e.printStackTrace();
    }
}

@Test(groups="Firefox", dependsOnMethods="LaunchFirefox")
public void TryFacebook2() {
    System.out.println(Thread.currentThread().getId());
    driver.findElement(By.id("email")).sendKeys("ravi10thstudent@gmail.com");
    driver.findElement(By.id("pass")).sendKeys("ravi28394");
    driver.findElement(By.id("loginbutton")).click();
    System.out.println(Thread.currentThread().getId());
}
}

```

### Problem Statement-3

```

package com.asserts;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.Assert;
import org.testng.annotations.Test;
import org.testng.asserts.SoftAssert;
public class Assertions {
    SoftAssert soft = new SoftAssert();
    WebDriver driver;
}

```

```

@Test
public void Launch() {
    System.setProperty("webdriver.chrome.driver",
        "./Resources/chromedriver.exe");
    driver = new ChromeDriver();
    try {
        Thread.sleep(3000);
    } catch (Exception e) {
        e.printStackTrace();
    }
}

@Test(dependsOnMethods = { "Launch" })
public void Facebook() {
    driver.get("https://www.facebook.com");
    soft.assertEquals("FB Title", driver.getTitle());
    try {
        Thread.sleep(2000);
    } catch (Exception e) {
        e.printStackTrace();
    }
}

@Test(dependsOnMethods = { "Facebook" })
public void Login() {
    driver.findElement(By.id("email")).sendKeys("ravil10thstudent@gmail.com");
    driver.findElement(By.id("pass")).sendKeys("12345");
    driver.findElement(By.id("loginbutton")).click();
    soft.assertAll();
    try {
        Thread.sleep(3000);
    } catch (Exception e) {
        e.printStackTrace();
    }
}
}

```

## Problem Statement-4

```

package com.example;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
import org.testng.asserts.SoftAssert;
public class NewTest {
    private WebDriver driver;
    SoftAssert soft=new SoftAssert();
}

```

```

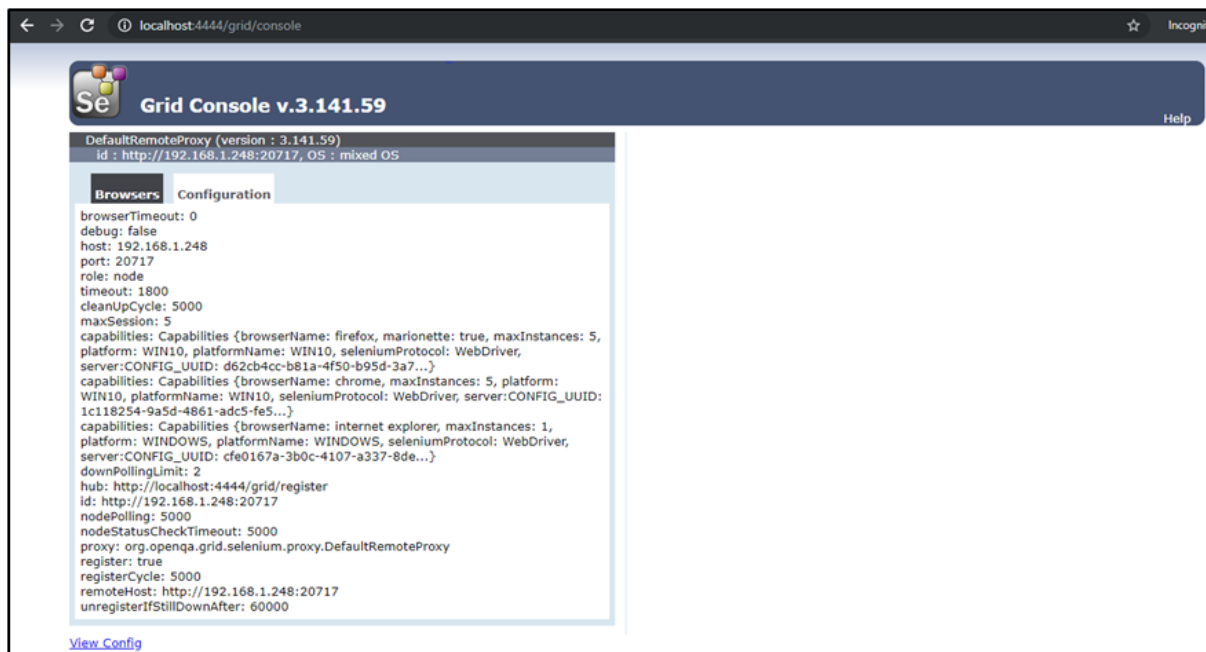
@Test
public void testEasy() {
    System.setProperty("webdriver.chrome.driver",
        "./Resources/chromedriver.exe");
    driver=new ChromeDriver();
    driver.get("https://www.facebook.com");
    String title = driver.getTitle();
    soft.assertEquals("FB Login",title);
}

@BeforeTest
public void beforeTest() {
    driver = new FirefoxDriver();
}

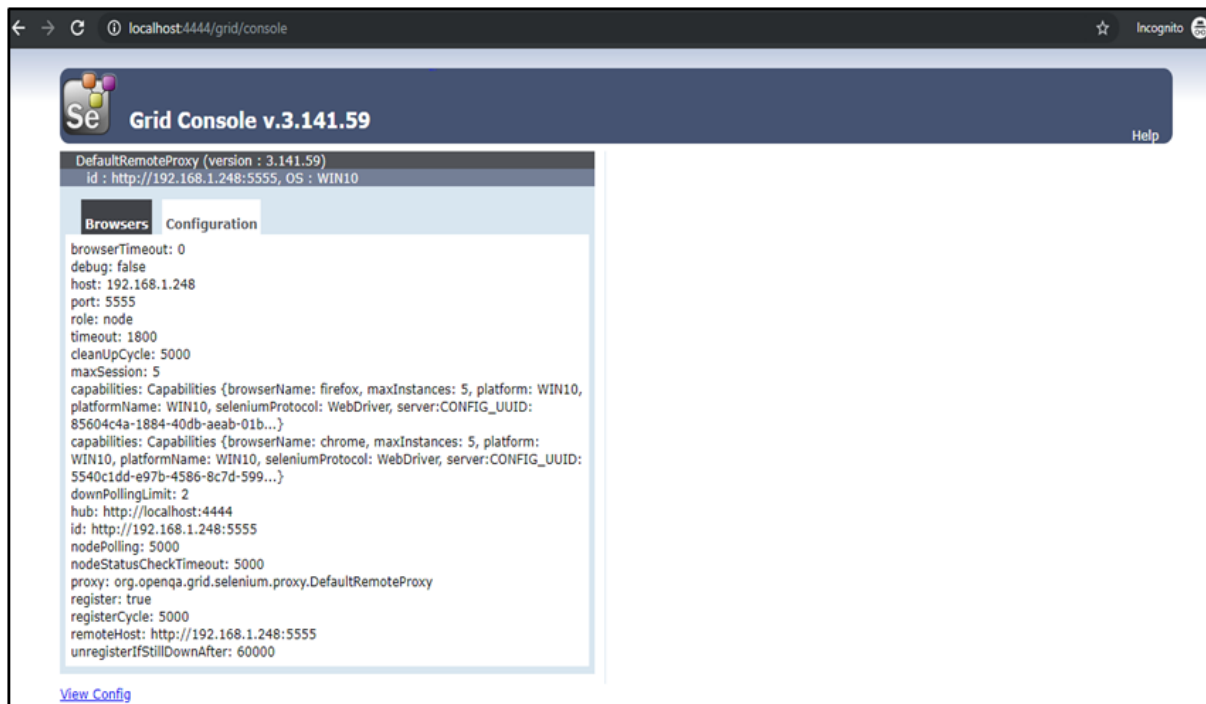
@AfterTest
public void afterTest() {
    driver.quit();
}
}

```

## Problem Statement-5



## Problem Statement-6



## Problem Statement-7

```
import java.net.URL;

import org.openqa.selenium.Platform;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openqa.selenium.remote.RemoteWebDriver;

public class GridTest {

    public static void main(String[] args) throws MalformedURLException {
        DesiredCapabilities cap = new DesiredCapabilities();
        cap.setBrowserName("chrome");
        cap.setPlatform(Platform.WIN10);

        URL url = new URL("http://192.168.1.248:4444/wd/hub");
        WebDriver driver = new RemoteWebDriver(url, cap);

        driver.get("https://www.google.com");
        System.out.println("Google Title: " + driver.getTitle());

        driver.close();
    }
}
```